14:41 12/10/5002	FF	ОК	US-PGPUB; USPAT; Oqt ;Oq3	peer\$1 peer\$1	61	רז
qmst2 əmiT	Plurals	Default Operator	DBS	Сеагсһ Query	ztiH.	Ref

0056695 :ON-TAG-SU

A 0026632 2U DOCOMENT-IDENTIFIEK:

Reliable datagram service provider for fast TILLE:

a clustered environment

----- KMIC ------

Shared Memory Header. The shared memory segment is a virtual Detailed Description Text - DETX (41):

section of the address space of each process that connects with the contiduous

memory segment is carved into a header section that stores general

information

regarding the DLM and its peer nodes, while the body section stores

gata structures that are used to represent  $\overline{\text{resources}^{\, \text{t}}}$  locks, hash all the

process slots etc. The shared memory header contains the following

:səznqpnzqs

messaging in

1/21/05, EAST Version: 2.0.1.4

Brief Summary Text - BSTX (22):

Each local lock manager uses the global lock manager in the manner above, distributing the information and management of resource serialization

Serialization

Serialization

Granged from a crass with a local lock managers is changed from a sand the sysplex. The structure of the local lock managers is and the acaponable only its global resource requests from sequests from sequests from sequests from sequests from sequests from the system. A system. B system.

requests in a multisystem complex

A 0062082 2U

0065085

Method and apparatus for serializing resource

manager, but sysplex-wide global resource queues will not be kept.

TOCK

**9CCGR**2

TITLE:

:OM-TAG-2U

DOCOMENT-IDENTIFIER:

0796069 :OM-TAG-SU

----- KMIC ------

available data

DOCOMENT-IDENTIFIER:

LILLE:

System and method for providing highly

storage using globally addressable memory

The shared memory provides the distribution mechanism for resource Detailed Description Text - DETX (56):

A 0426062 SU

ot the among peer nodes running the file system 60 software. Each instance Sparing

file system 60 on each network node views the shared memory resources

pages) as being shared with other local or remote threads.

needs a way to implement high level, file system locks to provide oo wataya

resource sharing. Any concurrency control structure can be used to COUSTRIGUE

locks, such as lock objects or semaphores. In database applications, тшБтешеиг

may also be achieved by implementing concurrency control structures Jocking

with database indices or keys. In file system applications access to associated

directories may be controlled. Another example of file system locks files or

is Byte

Range Locking, which provides the users the ability to coordinate

A byte range lock is a lock set on a range of bytes of a to files.

Coordinated shared access to a file can be accomplished by taking file.

desired byte ranges. In general, the high level file system lock Jocks on the

MOLKS IN LYG

file Tollowing fashion: (a) a file system resource is to be shared by each

system 60 instance, and the access to the resource is coordinated by

TEAST TOCK brotocol using a lock object data structure that represents the high s locking

arructure to coordinate the shared resource, and it is the value of the data

that represents the current state of the lock; (b) to access the

## resource, the

instance at each node must be able to look at the state (or value) of the lock

data structure, and if it is "free," modify it so that it becomes "busy," but

if it is "busy," then it has to wait to become "free," and there could be

intermediate states between "free" and "busy" (i.e., more than two lock

states), but in any event, in this byte range locking example, a lock is a

description of a certain byte range being shared/exclusively locked by some

thread of the file system 60, and a conflicting new byte range lock request

that falls in or overlaps the already locked byte range will be denied or the

requester may block (depending on how the request was made); and (c) access to

or modification of the lock data structure by each node's instance needs to be

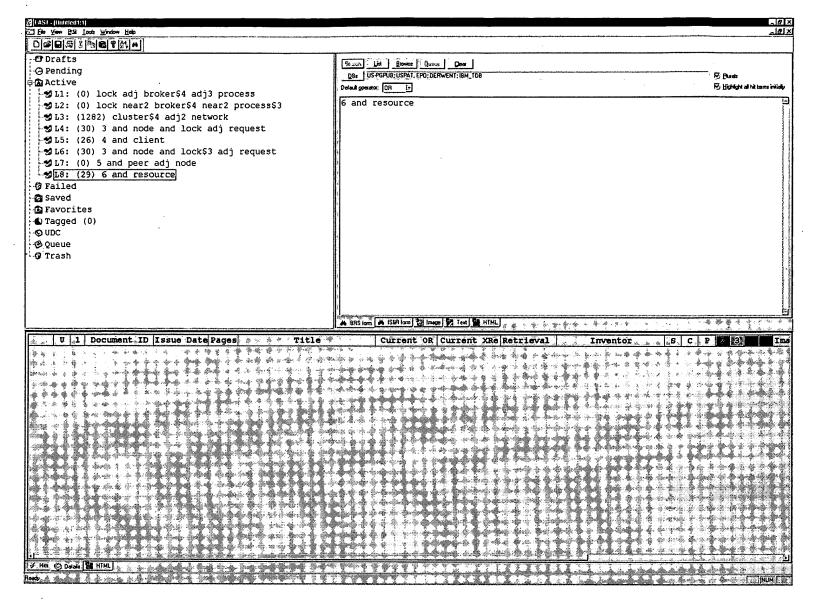
serialized so that it in turn can then be used to coordinate high level

resource sharing.

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1282	cluster\$4 adj2 network	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR -	ON	2005/01/21 13:40
L2	. 74	1 and node and lock and request and client	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 13:44
L3	26	1 and node and lock adj request and client	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 13:44
L4	26	3 and resource	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 13:44
L5	14	4 and "709"/\$.ccls.	US-PGPUB; USPAT; EPO; DERWENT;	OR	ON	2005/01/21 13:55
L6	0	4 and peer	IBM_TDB  US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 13:56
L7	26	4 and process	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 14:05
L8	0	7 and cmlock	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 14:05
L9	0	7 and daemon	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 14:10
L10		"6795832".pn.	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 14:23

L11		"2001005654"	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR .	ON	2005/01/21 14:24
L12	3	"2001005654".pn.	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 14:25
L13	92	chrabaszcz	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 14:26
L14	31	chrabaszcz.in.	US-PGPUB; USPAT; EPO;	OR	ON	2005/01/21 15:19
			DERWENT; IBM_TDB	2.1		x 18.
L15	.498	cluster and node and lock and conflict	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 15:20
L16	384	15 and resource	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 15:20
L17	207	16 and client	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 15:20
L18	25	17 and 4	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 15:26
L19	6912	resource adj allocation	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 15:26
L20	53	15 and 19	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON ·	2005/01/21 15:34

L21	1	20 and 18	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR'	ON	2005/01/21 15:26
L22	0	15 and 19daemon	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 15:34
L23	3972	daemon	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 15:34
L24	14	20 and 23	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 15:36
L25	14	24 and conflicts	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON .	2005/01/21 15:37
L26	10	25 and peer	US-PGPUB; USPAT; EPO; DERWENT; IBM_TDB	OR	ON	2005/01/21 15:37



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